

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

The application of:

Gary L. Gibson, *et al.*

Appl. No. 10/677,404

Filed: October 1, 2003

For: METHOD OF SEPARATING  
COMPONENTS IN A SAMPLE USING  
SILANE-TREATED SILICA FILTER  
MEDIA

Art Unit: 1724

Examiner: Not Yet Assigned

Atty. Docket: 02716.0003.NPUS01

Confirmation No.: 8884

**Information Disclosure Statement**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted

to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120.  
1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed;
  - ☐ a. Within three months of the U.S. filing date of a national application other than a continued prosecution application under §1.53(d);
  - ☐ b. Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
  - c. Before the mailing date of a first Office Action on the merits;
  - ☐ d. Before the mailing of a first Office Action after filing of a request for continued examination under § 1.115.

No statement under 37 C.F.R. § 1.97(e) or fee is required.

or;

- ☐ 2. This Information Disclosure Statement is being filed after the period specified in paragraph 1(a)-1(d) above, but before the mailing date of a Final Rejection or Notice of Allowance, or action that otherwise closes prosecution in the application, and
  - ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
  - ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2), or
  - ☐ c. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).

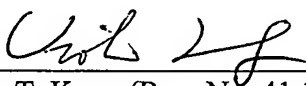
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(i), and
- ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
- ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 4. Relevance of the non-English language document(s) is discussed in the present specification.
- ☐ 5. The document(s) was/were cited in a corresponding foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- ☐ 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- ☐ 7. The Examiner's attention is directed to co-pending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038 referencing docket number 02716.0003.NPUS01.

Respectfully submitted,

Date: April 6, 2004

  
\_\_\_\_\_  
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## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO.

02716.0003.NPUS01

APPLICATION NO.

10/677,404

APPLICANT

Gary L. Gibson, et al.

FILING DATE

10/01/03

GROUP

1724

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1.	3,680,699	08/01/72	MacPherson			
	2.	3,865,728	02/11/75	Abbott, et al.			
	3.	4,187,120	02/05/80	Kunin, et al.			
	4.	4,238,334	12/09/80	Halbfoster			
	5.	4,379,931	04/12/83	Plueddemann			
	6.	4,473,474	09/25/84	Ostreicher, et al.			
	7.	4,515,821	05/07/85	Armstead, et al.			
	8.	4,571,389	02/18/86	Goodwin, et al.			
	9.	4,594,158	06/10/86	Chong, et al.			
	10.	4,619,911	10/28/86	Goodwin, et al.			
	11.	4,645,567	02/24/87	Hou, et al.			
	12.	4,645,605	02/24/87	Durham			
	13.	4,682,992	07/28/87	Fuchs			
	14.	4,734,208	03/29/88	Pall, et al.			
	15.	5,013,459	05/07/91	Schips			
	16.	5,019,173	05/28/91	Gettings, et al.			
	17.	5,073,281	12/17/91	Paules, et al.			
	18.	5,360,633	11/01/94	Dean			
	19.	5,413,059	05/09/95	Schips			
	20.	5,628,910	05/13/97	Michos			
	21.	5,856,429	01/05/99	Michos			
	22.	5,858,911	01/12/99	Wellen, et al.			
	23.	5,942,115	08/24/99	Reiber			
	24.	6,001,406	12/14/99	Katzke, et al.			
	25.	6,375,735	04/23/02	Stephens, et al.			
	26.	6,521,290	02/18/03	Kudo, et al.			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

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	27.	6,524,489	02/25/03	Palm, et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	28.	EP 0 183 139 B1	14 Nov 85	EP				
	29.	EP 0 798 003	10 Mar 97	EP				
	30.	EP 0 806 474 A1	07 May 97	EP				
	31.	JP 10036705	02/10/98	Japan				
	32.	JP 22146232	05/22/02	Japan				
	33.	JP 5212241	08/24/93	Japan				
	34.	JP 8119619	05/14/96	Japan				
	35.	WO 97/43401	27 Mar 97	PCT				
	36.	WO 00/48706	18 Feb 00	PCT				
	37.	WO 01/12296	22 Feb 01	PCT				
	38.	WO 02/083270	24 Oct 02	PCT				
<b>OTHER REFERENCES</b>								
(Including Author, Title, Date, Pertinent Pages, Etc.)								
	39.	Roy, et al., "Preparation of Ion-Exchange Silica and Effect of pH on Protein Binding of Ion-Exchange Silica", <i>J. of Chromatographic Science</i> , 22: 84-6 (1984)						
	40.	Snyder, et al., "Preparation and Properties of Bonded-Phase Peckings", <i>Introduction to Modern Liquid Chromatography</i> , 2 <sup>nd</sup> edition, pp. 272-80 (1979)						

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